

**AMENDMENTS TO THE SPECIFICATION:**

On page 160, after line 14, of the originally filed specification, please insert the following paragraph:

*Measurements of physiological processes and states to validate the veracity of someone's statements (e.g., as a lie-detector test).* As lying typically results in different patterns of neural activation, this can be detected using the device described here. Therefore, if a subject is recorded on multiple trials telling lies or providing other stressful information, and in other circumstances telling the truth, it is possible to document the difference in these two different cases, and compare them with the pattern of activity in the state or process that occurs during a given statement, in order to determine whether or not that statement is truthful. A linear regression of activity across a number of regions of interest can be computed during lies as well as during truthful statements, and a correlation based on the weights used in this regression can be computed for a given statement in order to determine whether the statement is true or false.